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SEQUENCE LISTING

<110> Jahic, Haris

<120> Screening Assay to Identify Inhibitors of the Murd Enzyme Using an Activator-Independent Murd Enzyme

<130> ASZD-P01-874

<150> GB 0224997.7

<151> 2002-10-26

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<170> PatentIn version 3.2

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Val Thr Pro Arg Val Met Asp Thr Arg Met Thr Pro Pro Xaa Xaa Xaa
 35 40 45

Gly Leu Asp Lys Leu Pro Glu Ala Val Glu Arg His Thr Gly Ser Leu
 50 55 60

Asn Asp Glu Trp Leu Met Ala Ala Xaa Asp Leu Ile Val Ala Ser Pro
 65 70 75 80

Gly Ile Ala Leu Ala His Pro Ser Leu Ser Ala Ala Ala Asp Ala Gly
 85 90 95

Ile Glu Ile Val Gly Asp Ile Glu Leu Phe Cys Arg Glu Ala Gln Ala
 100 105 110

Pro Ile Val Ala Ile Thr Gly Ser Asn Gly Lys Ser Thr Val Thr Thr
 115 120 125

Leu Val Gly Glu Met Ala Lys Ala Ala Gly Val Asn Val Xaa Xaa Gly
 130 135 140

Val Gly Gly Asn Ile Gly Leu Pro Ala Xaa Xaa Leu Met Leu Leu Asp
 145 150 155 160

Asp Glu Cys Glu Leu Tyr Val Leu Glu Leu Ser Ser Phe Gln Leu Glu
 165 170 175

Thr Thr Ser Ser Leu Gln Ala Val Ala Ala Thr Ile Leu Asn Val Thr
 180 185 190

Glu Asp His Met Asp Arg Tyr Pro Phe Gly Leu Gln Gln Tyr Arg Ala
 195 200 205

Ala Lys Leu Arg Ile Tyr Glu Asn Ala Lys Val Cys Val Val Asn Ala
 210 215 220

Asp Asp Ala Leu Thr Met Pro Ile Arg Gly Xaa Ala Asp Glu Arg Cys
 225 230 235 240

Val Ser Phe Gly Val Asn Xaa Xaa Xaa Met Gly Asp Tyr His Leu Asn
 245 250 255

His Gln Gln Gly Glu Thr Trp Leu Arg Val Lys Gly Glu Lys Val Leu
 260 265 270

Asn Val Lys Glu Met Lys Leu Ser Gly Gln His Asn Tyr Thr Asn Ala
 275 280 285

Leu Ala Ala Leu Ala Leu Ala Asp Ala Ala Gly Leu Pro Arg Ala Ser
 290 295 300

Ser Leu Lys Ala Leu Thr Thr Phe Thr Gly Leu Pro His Arg Phe Glu
 305 310 315 320

Val Val Leu Glu His Asn Gly Val Arg Trp Ile Asn Asp Ser Lys Ala
 325 330 335

Thr Asn Val Gly Ser Thr Glu Ala Ala Leu Asn Xaa Xaa Gly Leu His
 340 345 350

Val Asp Gly Thr Leu His Leu Leu Leu Gly Gly Asp Gly Lys Ser Ala
 355 360 365

Asp Phe Ser Pro Leu Ala Arg Tyr Leu Asn Gly Asp Asn Val Arg Leu
 370 375 380

Tyr Cys Phe Gly Arg Asp Gly Ala Gln Leu Ala Ala Leu Arg Xaa Xaa
 385 390 395 400

Pro Glu Val Ala Glu Gln Thr Xaa Xaa Glu Thr Met Glu Gln Ala Met
 405 410 415

Arg Leu Leu Ala Pro Arg Val Gln Pro Gly Asp Met Val Leu Leu Ser
 420 425 430

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 35 40 45

Ala Gln Asp Leu Leu Thr Leu Gly Ile Arg Val Val Thr Gly Gly His
 50 55 60

Pro Ile Glu Leu Leu Asp Glu Glu Phe Glu Leu Ile Val Lys Asn Pro
 65 70 75 80

Gly Ile Leu Tyr Thr Asn Pro Leu Val Ala Glu Ala Leu Thr Arg Lys
 85 90 95

Ile Pro Ile Ile Thr Glu Val Glu Leu Ala Gly Gln Ile Ala Glu Cys
 100 105 110

Pro Ile Val Gly Ile Thr Gly Thr Asn Gly Lys Thr Thr Thr Thr
 115 120 125

Met Ile Gly Leu Leu Leu Asn Ala Asp Arg Thr Ala Gly Glu Ala Arg
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Leu Ala Gly Asn Ile Gly Phe Pro Ala Ser Thr Val Ala Gln Glu Ala
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Thr Ala Lys Asp Asp Leu Val Met Glu Leu Ser Ser Phe Gln Leu Met
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Gly Ile Glu Thr Phe His Pro Gln Ile Ala Val Ile Thr Asn Ile Phe
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Glu Ala His Leu Asp Tyr His Xaa Gly Ser Arg Lys Glu Tyr Val Ala
 195 200 205

Ala Lys Trp Ala Ile Gln Lys Asn Met Thr Ala Glu Asp Thr Leu Ile
 210 215 220

Leu Asn Trp Asn Gln Val Glu Leu Gln Thr Leu Ala Lys Thr Thr Ala
 225 230 235 240

Ala Asn Val Leu Pro Phe Ser Thr Lys Glu Ala Val Glu Gly Ala Tyr
 245 250 255

Leu Leu Asp Gly Xaa Xaa Lys Leu Tyr Phe Asn Glu Glu Tyr Ile Met
 260 265 270

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Pro Ala Asp Glu Leu Gly Ile Pro Gly Ser His Asn Ile Glu Asn Ala
275 280 285

Leu Ala Ala Ile Cys Val Pro Lys Leu Lys Asn Val Ser Asn Ala Gln
290 295 300

Ile Lys Gln Ser Leu Thr Asn Phe Ser Gly Val Pro His Arg Thr Gln
305 310 315 320

Phe Val Gly Glu Val Gln Gln Arg Arg Phe Tyr Asn Asp Ser Lys Ala
325 330 335

Thr Asn Phe Leu Ala Thr Glu Met Ala Leu Ser Xaa Xaa Gly Phe Asp
340 345 350

Asn Gln Lys Leu Leu Leu Leu Ala Gly Gly Leu Asp Xaa Arg Gly Asn
355 360 365

Ser Phe Asp Glu Leu Val Pro Ala Leu Leu Gly Xaa Leu Lys Ala Ile
370 375 380

Val Leu Phe Gly Glu Thr Lys Lys Lys Leu Ala Glu Ala Ala Lys Lys
385 390 395 400

Pro Asn Ile Glu Thr Ile Leu Phe Ala Glu Asn Val Gln Thr Ala Val
405 410 415

Thr Ile Ala Phe Asp Tyr Ser Glu Lys Asp Asp Thr Ile Leu Leu Ser
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 35 40 45

Thr Leu Arg Ala Gln Tyr Pro Gln Val Glu Val Arg Cys Gly Glu Leu
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Asp Ala Glu Phe Leu Cys Ser Ala Xaa Arg Glu Leu Tyr Val Ser Pro
 65 70 75 80

Gly Leu Ser Leu Arg Thr Pro Ala Leu Val Gln Ala Ala Ala Lys Gly
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Val Arg Ile Ser Gly Asp Ile Asp Leu Phe Ala Arg Glu Ala Lys Ala
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Pro Ile Val Ala Ile Thr Gly Ser Asn Ala Lys Ser Thr Val Thr Thr
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Leu Val Gly Glu Met Ala Val Ala Ala Asp Lys Arg Val Xaa Xaa Ala
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Val Gly Gly Asn Leu Gly Thr Pro Ala Xaa Xaa Leu Asp Leu Leu Ala
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Asp Asp Ile Glu Leu Tyr Val Leu Glu Leu Ser Ser Phe Gln Leu Glu
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Thr Cys Asp Arg Leu Asn Ala Glu Val Ala Thr Val Leu Asn Val Ser
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Glu Asp His Met Asp Arg Tyr Xaa Asp Gly Met Ala Asp Tyr His Leu
 195 200 205

Ala Lys His Arg Ile Phe Arg Gly Ala Arg Gln Val Val Val Asn Arg
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Ala Asp Ala Leu Thr Arg Pro Leu Ile Ala Xaa Asp Thr Val Pro Cys
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Trp Ser Phe Gly Leu Asn Lys Pro Asp Phe Lys Ala Phe Gly Leu Ile
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Glu Glu Asp Gly Gln Lys Trp Leu Ala Phe Gln Phe Asp Lys Leu Leu
 260 265 270

Pro Val Gly Glu Leu Lys Ile Arg Gly Ala His Asn Tyr Ser Asn Ala
 275 280 285

Leu Ala Ala Leu Ala Leu Gly His Ala Val Gly Leu Pro Phe Asp Ala
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Met Leu Gly Ala Leu Lys Ala Phe Ser Gly Leu Ala His Arg Cys Gln
 305 310 315 320

Trp Val Arg Glu Arg Gln Gly Val Ser Tyr Tyr Asp Asp Ser Lys Ala
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Thr Asn Val Gly Ala Ala Leu Ala Ala Ile Glu Gly Leu Gly Ala Asp
 340 345 350

Ile Asp Gly Lys Leu Val Leu Leu Ala Gly Gly Asp Gly Lys Gly Ala
 355 360 365

Asp Phe His Asp Leu Arg Glu Pro Val Ala Arg Phe Cys Arg Ala Val
 370 375 380

Val Leu Leu Gly Arg Asp Ala Gly Leu Ile Ala Gln Ala Leu Xaa Xaa
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Gly Asn Ala Val Pro Leu Val Arg Val Ala Thr Leu Asp Glu Ala Val
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Arg Gln Ala Ala Glu Leu Ala Arg Glu Gly Asp Ala Val Leu Leu Ser
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 35 40 45

Ala Lys Asp Leu Glu Ser Met Gly Ile Ser Val Val Ser Gly Ser His
 50 55 60

Pro Leu Thr Leu Leu Asp Asn Asn Xaa Pro Ile Ile Val Lys Asn Pro
 65 70 75 80

Gly Ile Pro Tyr Thr Val Ser Ile Ile Asp Glu Ala Val Lys Arg Gly
 85 90 95

Leu Lys Ile Leu Thr Glu Val Glu Leu Ser Tyr Leu Ile Ser Glu Ala
 100 105 110

Pro Ile Ile Ala Val Thr Gly Thr Asn Gly Lys Thr Thr Val Thr Ser
 115 120 125

Leu Ile Gly Asp Met Phe Lys Lys Ser Arg Leu Thr Gly Xaa Xaa Arg
 130 135 140

Leu Ser Gly Asn Ile Gly Tyr Val Ala Ser Lys Val Ala Gln Glu Val
 145 150 155 160

Lys Pro Thr Asp Tyr Leu Val Thr Glu Leu Ser Ser Phe Gln Leu Leu
 165 170 175

Gly Ile Glu Lys Tyr Lys Pro His Ile Ala Ile Ile Thr Asn Ile Tyr
 180 185 190

Ser Ala His Leu Asp Tyr His Xaa Glu Asn Leu Glu Asn Tyr Gln Asn
 195 200 205

Ala Lys Lys Gln Ile Tyr Lys Asn Gln Thr Glu Glu Asp Tyr Leu Ile
 210 215 220

Cys Asn Tyr His Gln Arg Gln Val Ile Glu Xaa Ser Glu Glu Leu Lys
 225 230 235 240

Ala Lys Thr Leu Tyr Phe Ser Thr Gln Gln Glu Val Asp Gly Ile Tyr
 245 250 255

Ile Lys Asp Gly Xaa Xaa Phe Ile Val Tyr Lys Gly Val Arg Ile Ile
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Asn Thr Glu Asp Leu Val Leu Pro Gly Glu His Asn Leu Glu Asn Ile
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Leu Ala Ala Val Leu Ala Cys Ile Leu Ala Gly Val Pro Ile Lys Ala
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Glu Lys Phe Ile Glu Arg Phe Arg Ala His Leu Pro Ser Tyr Xaa
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